

ARRL Northwest Division Ham Convention



Seaside Convention Center Seaside, Oregon

May 31, June 1 & 2, 2002

Presented by Oregon Túalatin Valley Amateur Radio Club



Welcome to SEAPAC 2002

The SEAPAC Ham Convention is sponsored by the Oregon Tualatin Valley Amateur Radio Club.

Co-Sponsors include Clark County Amateur Radio Club; Sunset Empire Amateur Radio Club; Sunset Empire Amateur Radio Club; and, Hoodview Amateur Radio Club.

The Sponsors wish to thank all volunteers for their assistance and contributions to the convention. We hope everyone will enjoy themselves to the fullest and be a part in making this event a

Contents

VE Testing	Awards

VE Testing

Testing is at Our Saviour's Lutheran Church across from the Convention Center. One session only at 9:00 AM on Saturday, June 1, 2002.

Testing will be by pre-registration only. No walk-ins!

SEAPAC Hospitality Suite

"A Hangout for Bored Spouses"

Stop by and have a cup of coffee tea,or other beverage and relax. See Page 9

Kids Krayons & Kartoons

Sea Mist Room

Saturday, June 1 - 9:00 AM to 4:30 PM Sunday, June 2 - 9:00 AM to 2:00 PM

For children 5 - 12 years old. Separate arrangements can be made to care for younger children at a nominal cost.

Talk-in Station: 146.660 (-600) MHz

Convention Schedule

Friday, May 31

11:00 AM – 8:00 PM
11:00 AM - 8:00 PM
e Room) 12:30 PM - 5:30 PM
oom 125)6:00 PM - 8:00 PM
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8:00 AM – 4:30 PM
9:00 AM – 4:30 PM
9:00 AM – 4:30 PM
om 125)9:00 AM - 5:00 PM
9:00 AM – 4:30 PM
hurch) 9:00 AM - 12:00 PM
9:30 AM – 5:15 PM
Room) 11:30 AM – 1:30 PM
11:30 AM – 1:30 PM
y)6:30 PM – 7:15 PM
7:15 PM – 9:30 PM
ne 2
8:30 AM – 12:00 PM
9:00 AM – 1:00 PM

SEAPAC Exhibitors

AM-COM Inc.

Aesthetic Apparel

AJ's Embroidery

Air National Guard

Alinco

ALF Enterprises

Amateur Radio Relay Group

American Radio Relay League

American Red Cross

At Home America

AVENTRADE

Battery Tech

Bearcat Radio Club

Books Etc.

DC Power

Dark Star Dog Tags

Dave's Radios

EE Industries

Elecraft

Elk Antennas

Fluidmotion Antenna Systems

Ham Stuff

High Sierra Antennas

Ham Radio Outlet

ICOM America

Inkjet Southwest

J & K Enterprises

.IPoles.com

Kenwood, USA

Larry's Antennas

Mr. NiCd/Batteries America

Mountain-Ops Communications

Navy/Marine Corps MARS

Omnitec Antennas

Portland Amateur Radio Club

Quarter Century Wireless Association (QCWA)

Rad-Comm Radio

Radio Club JHS 22 NYC

Radio Depot

Royal Naval Amateur Radio Society

SGC, Inc.

Sign Peddler

Starfire Tec

Startek International

Western Case Sales

West Mountain Radio

Willamette Valley DX Club (WVDX)

Yaesu U.S.A.

Young Ladies Radio League (YLRL)

Due to publication deadlines we apologize for any changes.

Convention Banquet Program

Welcome Joe Fairclough WB2JKJ

Joe Fairclough created the only ham radio curriculum for school use recognized by the New York City Board of Education. Joe is a native New Yorker (actually born in Brooklyn, but lived in Queens) who graduated from Richmond Hill High School in Queens and received his bachelor's degree from Long Island University. He celebrates his 40th year as a ham at SEAPAC.

Joe taught English for the NYC schools. In his search for motivators for his students he decided Ham Radio was just the ticket. Joe built the curriculum around communications and found his students eager to come to school and excited about what they were learning.

Today, Joe heads the not-for-profit organization created to encourage the use of Ham Radio in the schools. Known as the "22 CREW," The Radio Club of Junior High School 22 is known across the nation for its efforts. Joe has been recognized personally for his efforts in numerous ways. He was the ARRL Teacher of the Year, Dayton Hamvention "Ham of the Year," and was honored by Paul Parton, Governor of Kentucky, as an Honorary Kentucky Colonel.

The "22 CREW" is celebrating its 22nd Anniversary this year. You can join the "22 CREW" any day on the Classroom Net: 7.238 MHz from 1100 – 1230 UTC and 21.395 MHz from 1300 – 1900 UTC.

You will be entertained and challenged by Joe's presentation.

Master of Ceremonies Greg Milnes, W7OZ ARRL Northwestern Division Director

aka "The Wiz"

Greg earned his first license in 1955. In the mid-60s, he operated W7AGQ/4 from Virginia and served as a staff attorney with the FCC Broadcast Bureau in Washington, DC. He returned to the Northwest in 1967, where he served as a Judge for Washington County Circuit Court, Washington County, Oregon from 1969 until retirement. Greg serves as ARRL Northwestern Division Director, is a member of QCWA, DXCC, FARS, Willamette Valley DX Club and OTVARC (past President and Trustee).

2002 Chuck Mickley Memorial Scholarship



Robbin Heath KD7MRU

The OTVARC Scholarship Committee is proud to introduce the 2002 Chuck Mickley Memorial Scholarship Award recipient, Robbin Heath KD7MRU. The awarding of the scholarship will take place at the Convention Banquet.

Robbin is a student at Portland Community College and plans to transfer to Oregon State University after completing his transfer degree in Computer Science. When not at school, Robbin's hobbies include working on his collection of all things related to Star Wars and working on various projects on his computer.

He is a leader in the Boy Scouts of America and holds the rank of Eagle Scout. When Robbin reached the sixth grade he joined Troop 162 and got involved in

his community through service projects organized by the Troop. Over the years he worked as a volunteer for various Boy Scout camps, eg, Meriweather and Ireland. He earned his Eagle rank at seventeen years of age and continued to serve his Troop and community until he reached the age of eighteen, at which point he assumed adult Scouting leadership roles.

It was in training for the 2001 National Jamboree at Washington DC that Robbin met Phil Westover WA7URV, Scoutmaster for Robbin's Jamboree Troop. Phil is an Extra Class operator from Tigard, Oregon. Phil suggested that the leaders get Ham Radio licenses so that communication at the Jamboree campout would be easier. To that end several youth from the Jamboree Troop studied and took the Technician Class license exam. It was at this time that Robbin first licensed.

Robbin arrived home even more interested in ham radio joined OTVARC to see what else was available. Randy Stimson KZ7T introduced him to public service volunteer activities. Robbin is working toward his General Class License and preparing to serve at "Reach the Beach" and "Cycle Oregon" events as a Ham Radio communicator.

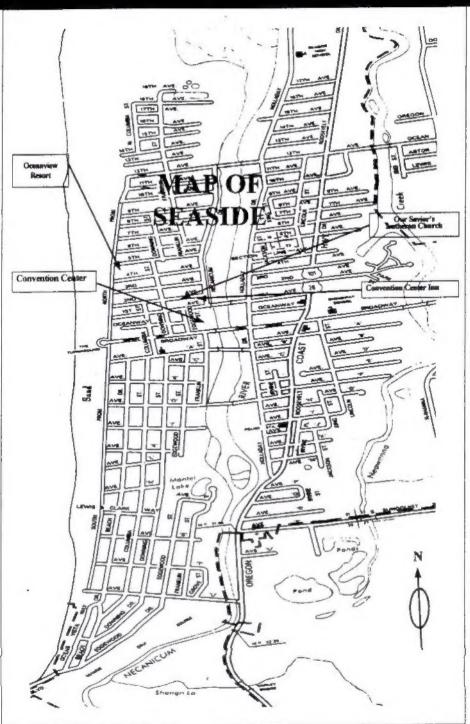
Robbin is the son of Bob KD7OHF and Rox KD7OHE and his brother Ryan recently tested for and received his Technician Class License, KD7QZL. All are members of OTVARC.

The scholarship committee for 2002: Carl Clawson WS7L, Chair; Harold D. Landers WAØBRU; Claire Johnson N7CM; and Dale Mosby K7FW.

ARRL GUESTS

Joel Harrison W5ZN, ARRL First Vice President Greg Milnes W7OZ, Northwestern Division Director James E. Fenstermaker K9JF, NW Division Vice Director Jim Maxwell W6CF, Pacific Division Director

Seaside Area Map



68 th Glacier-Waterton International Peace Park Hamfest

♦ Registration ♦

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Clacier-Waterton Hamfest July 19, 20, 21, 2002 Three Forks Group Camping Inc.



EWD 1816

SEAPAC Grand Awards

Must Be Present

Yaesu FT-817 HF/VHF/UHF Mobile
Alinco DR-605TQ Dual Band Mobile
Yaesu VX-5R Tri-Band HT
ICOM IC-207H Dual Band Mobile
Kenwood TH-22AT 2 Meter Mobile
NONE BY PROXY
(YOU MUST BE IN THE CONVENTION CENTER)

Need Not Be Present

Kenwood TS-50 HF Mobile Kenwood TH-F6A Tri-Band HT ICOM IC-T81A Dual Band HT Alinco DJ-V5TH Dual Band HT

The awards drawing period will be limited to one hour between 1:00 PM - 2:00 PM Sunday. These awards are purchased at or below cost from the dealers and manufacturers. We take this opportunity to express our appreciation for their assistance.

Good Luck.

HOURLY AWARDS

Posted in the lobby and on stage for 2 hours Unclaimed Awards are re-issued

Early Bird Awards
(Registration prior to April 30 to qualify)

Alinco DX-70TH HF/6 Mobile AM-COM Clear Speech Speaker

Award models subject to change depending on availability from the manufacturers and suppliers.

SEMINAR

RIVERVIEW

A		В	С
	riday	Afternoon June	1
12:30 to 5:30P		(1) Friday Worksh lem Solving on Real rshall Johnson Sr. K	Antennae"
	aturda	y Morning Jun	e2
9:30 A (9) IH9P Dx			9:30 AM (5)Packet Radio
Hank Lor KR72			Ken Wilhelmi N7QQU
11:00 A (2)Ante Hints & F Marshall Jo KK7C	nna Kinks ohnson	10:00 AM (13) Single Support Verticle Arrays Rudy Severns N6LF	11:00 AM (6)Using Incident Command Sharon Kennedy KD7CWP
	The Part of the Pa	y Afternoon Ju	
(12) In	2:00 PM (12) Introduction to A.P.R.S. Dave Dobbins K7GPS		1:30 PM (15) SET's for Dumies Tami Kuehl W7TMK
3:15 P Disaster 101 Daryl Sv KD7CF	M Prep. van		3:15 PM (12)Mary's Peak Repeater David Hakleman N7QQU
S	Sunday	Morning June	
		,	10:00 AM (3) RF Pipelines feedlines exposed Marshall Johnson KK7CW

CHEDULE

SEASIDE

A

B

C

Friday Afternoon June 1

Saturday Morning June 2

() Refer to the descriptions on the following pages

10:00 AM

(10) The Radio Club of JHS 22 NYC Story

Joe Fairclough WB2JKJ

10:00 AM

(8)Sound Card Modes

Dan Gravereaux N1ZZ

Saturday Afternoon June 2

2:00 PM

(11) ARRL Forum

Greg Milnes W7OZ Joel Harrison W5ZN

3:45 PM

(14)Sound Card Lab.

1:30 PM

(16)Computer Aided Antenna Design Roy Lewellan

W7EL

9:30 AM

(14) Sound Card Lab.

SEAPAC HOSPITALITY ROOM

Convention Center Inn Room 125

"A HANGOUT FOR BORED SPOUSES"

FRIDAY, May 31st

Room open from 6:00 pm to 8:00 pm

Stop by and have a cup of coffee, tea or other beverage.

Help start a puzzle.

Bring in books and recipes for the exchange and take some with you when you leave.

SATURDAY, JUNE 1st Room open 9:00 am to 5:00 pm

Program starts at 10:00 am

"BREAST CANCER: A Killer of Men and Women"

Presented by: Anne Gardner-Lindgren

Learn what you need to do to catch this killer in the early stages and possibly save your life or the life of a loved one. Questions and answers at the end of the program.

We hope to have a craft to teach and do related to the campaign against breast cancer.

Use Your Old Greeting Cards

We will show you how to make use of your old Greeting Cards

What can you make with the Pop-top tabs from beverage cans? Learn how to make an American flag pin with beads.

Let's finish our puzzle!

Coffee tea, and other beverages.

Popcorn, donuts and bagels

(while they last).



SUNDAY, JUNE 6th

Room open 9:00 am to Noon

Pick up copies of the recipes shared, take a book from the book exchange, complete a craft and sample one of the recipes You don't need to bring a book or recipe to take one home.

We will continue to work on the puzzle, if it isn't finished

Coffee tea, other beverages, donuts and bagels will be served.

Volunteers who helped at the "Hang out for bored spouses"

> Julie Landers, KD7GQW Harold Landers, WAOBRU Linda Sutton, KC7YTD May Altman KC7YNN Pat Ackenhead, WA2ZZZ Kathleen Brunson, KD7PFO

This year again we hope that you find some seminars to attend that catch your interest and open the doors to new ham radio adventures. The presenters below volunteer their time to share with you their knowledge and skills on the many facets of this great hobby. What ever your interest are, you're sure to acquire a great deal of new knowledge to take home.

Listed below is an overview of the seminars we are presenting this year. This is to help you select the seminars of interest. When attending seminars, be sure to thank the presenter when it is over and...

PLEASE, TURN OFF HAND-HELDS DURING THE SEMINARS.

(1) FRIDAY WORKSHOP:

"The Venerable Vertical"

Marshall Johnson KK7CW A.S.M. Oregon owner/engineer Amateur Antenna Supply (formerly Aerials Int'l.) FRIDAY, 12:30 to 5:30 PM Riverview A,B,C

Designs and construction notes for your own low band antenna. Of course, a full study of the theory of what makes vertical antennas work, radiators, ground systems, feed systems, matching systems efficiency, and resonance. Learn how to use the ultimate limited space antenna for all amateur bands and conditions.

(2) Antenna Hints & Kinks

Marshall Johnson KK7CW A.S.M. Oregon owner/engineer Amateur Antenna Supply (formerly Aerials Int'l.) SATURDAY, 11 00 AM - 12 30 PM Riverview A

Join Marshall for a discussion with Q&A on the latest designs, constructions techniques and special uses of amateur radio antenna systems.

(3) RF Pipelines -- feedlines exposed. Marshall Johnson KK7CW A.S.M. Oregon, owner/engineer Amateur Antenna Supply (formerly Aerials Int'l.)

SUNDAY. 10 00 AM - 11:30 AM Riverview C

Bring your morning coffee while you enjoy a study of feedline design, construction and uses. Take a look at unique and non-traditional uses of feedlines.

(4) The LBLERA Mary's Peak Repeater (W7QH/R) 146.78 MHz...for more years than I'd like to remember.

David Hakleman W7QH Dave's Radios LLC & Dept. of Electrical and Computer Engineering, Oregon State University SATURDAY.. 3:15 PM – 4:45 PM Riverview C

This seminar will cover the 146.78 Repeater on Mary's Peak in the Coast Range of Oregon. Photos of the site, the equipment and as much of the details as the audience can stand! The challenges in keeping a repeater operable for 24 hours a day, 7 day's a week for decades will be covered.

(5) You and Packet Radio - How to get the most out of Packet Ken Wilhelmi N7QQU, Asst. Section Emergency Coordinator -Packet - Oregon Section Government Liaison - Oregon SATURDAY, 9.30 to 11 AM Riverview C The packet system is a great way to send and receive digital information. This mode has many uses. There has been a resurgence of interest in the last year. We will focus on understanding the network

system and how to use it. Tips and tricks of getting the most out of

AT HOME AMERICA REAL LIFE WITH STYLE

REAL LIFE WITH STILE

Great rewards come from good times with friends!

Check out all the latest in <u>Home Décor</u> for the entire house Enter for the drawing!



Your HomeStyle Specialist 1s: Jan Maggs - KA7HMP

packet are included. ARES/RACES uses are highlighted. Questions are encouraged.

(6) ARES/RACES – Using Incident Command. Sharon Kennedy KD7CWP, City of Hillsboro Emergency Manager

SATURDAY, 11:00 AM to 12.30 PM Riverview C

Learn the concepts behind ICS and how they can be applied to amateur radio operations, including assigning "permanent" ICS positions within your ARES/RACES group. Sharon is a very knowledgeable speaker in the emergency communications field and if you are getting into or have been involved with an emergency agency, you should take this one in.

(7) Community Disaster 101

Daryl Swan KD7CHV, American Red Cross Disaster Presenter SATURDAY, 3:15 - 4:45 PM Riverview A

This a discussion on the disasters that occur in the Pacific Northwest and how they impact or everyday lives. We will also go over recommended items for your Disaster Supplies Kit.

The Challenges For Amateur Radio

- 1. Developing a "niche" for the twenty-first century
 - 2. Bringing New Hams on-board as operators
- 3. Providing "Continuing Education" for legacy hams
 - 4. Encouraging "new modes"
- 5. Self-Regulation in an atmosphere of respect and cooperation
- 6. Telling the Amateur Radio Story effectively in public media
 - 7. Celebrating our contributions to America
 - 8. Upgrading our volunteer communications capacity
 - 9. Interfacing with new technologies
 - 10. Getting on the air and operating

(8) Sound Card Modes

Dan Gravereau N1ZZ, Owner of West Mountain Radio

SATURDAY, 10:00 - 11:30 AM Seaside C

Meet the owner of West Mountain Radio the manufacturer of the popular Sound Blaster interface. He will discuss the amazing things you can do now with a sound card equipped computer. Also check out (14) for more sound card information.

(9) IH9P - Contest Dxpedition. Hank Londberg KR7X PE

SATURDAY, 9:30 AM to 11:00 PM Riverview A
Did you work this one and wondered where it was at? Come enjoy
Hanks description of 4 year of contest operation off the coast of
Tunisia.

(10) The Radio Club of JHS 22 of NYC, Joe Fairclough WB2JKJ

SATURDAY, 10:00 - 11.30 AM Seaside AB

Learn the story of the most successful school club in America and how it works and what they do. Hear how Joe started the club and how they have grown.

(11) The ARRL Forum

Joel Harrison First Vice-President ARRL

Greg Milnes W7OZ Northwest Division Director ARRL

SATURDAY, 2:00 to 3:30 PM Seaside A,B

A rare opportunity to meet Joel and Greg and find out what the league's goals are as well as an opportunity to express your opinion on policy.

(12) Introduction to Automated Position Reporting System (APRS) Dave Dobbins K7GPS, Lead Coordinator, Northwest APRS

SATURDAY, 2:00 to 3:30 PM Riverview A.B

The Automated Position Reporting System (APRS) is a fun and exciting use of packet radio to show a map display of moving and stationary objects. It uses GPS technology along with computers, radios and TNC's. Check out website at nwaprs.org.

(13) Single Support Verticals Arrays, Rudy Severns N6LF

SATURDAY 10:00 - 11:30 AM Riverside B

Rudy returns to show us how to build a vertical antenna array which will have modest gain and good front to back ratio using only one support such as a tower or a tall pole. The examples will be for 160 or 80 but could be applicable to higher frequencies.

(14) Sound Card Lab. The Seminar Committee

SATURDAY, 3:45 - 5:15 PM Seaside AB

SUNDAY, 9:30 - 11:15 AM

SEAPAC is trying something different with the sudden popularity of the sound card modes, a chance to try your hand at PSK31. A network will be available to simulate on-air contacts and demonstrate the software that is used. As time permits, we will try to get many to actually try and make a contact.

(15) Designing and Conducting an Simulated Emergency Test (aka SET's for Dummies), Tami Kuehl W7TMK, Oregon Emergency Management

SATURDAY, 1:30 - 3:15 PM Riverview C

Learn the 12 step process for designing, conducting and evaluating an effective SET. Samples will be provided for our use as a starting point in designing a SET to suit your organization's needs.

(16) Computer Aided Antenna Design. Roy Lewellan W7EL

SATURDAY, 1:30 - 3:00 PM Seaside C

Come and listen to the author of the popular antenna design software **EZNEC** describe what an antenna modeling program can do. He will give some examples of problems they can solve.

RAGS Test Bench

You've found "just what you need" at a Flea Market Table. Should you buy? The Radio Amateurs of the Gorge (RAGS) would like to help you decide.

As a service to flea market buyers, RAGS will have a test bench in the **upstairs flea market area**. Test equipment will include a power supply, speaker, voltmeter, frequency counter, oscilloscope and watt meters.

Buyers and prospective buyers are encouraged to make use of this service to check out those flea market treasures and unbelievable bargains.

Neither RAGS nor SEAPAC accepts any responsibility for the condition or operability of any equipment, nor can they be held culpable for any equipment damaged as a result of test gear usage.

The STEALTH Kit

A letter from Pierre Goral, President of SGC

We are very excited to introduce our newest product, the STEALTH Kit, into the HF market. With the STEALTH Kit, SGC is providing an all-in-one, convenient antenna solution that is perfect for providing an air-mone, convenient attenua solution has is persect to emergency use, when an urgent communications command center must be setup in minutes. The STEALTH kit contains everything a novice or professional needs to erect an antenna in any location—and provides performance equivalent to most dipole antennas!

The introduction of this new antenna kit eliminates much of the mystery of HF "magic". The STEALTH Kit (Smart Tuning, Emergency Antenna Loop, Tactical HF Kit) provides a solution of how to achieve clear HF communications quickly and easily. And, in keeping with its' name, the STEALTH Kit is an ideal antenna solution for restricted areas, such as condominiums and gated

communities where dipoles and towers are forbidden. Or, use it in city also a great antenna solution when you are on vacation. Whether in an RV or a hotel room, the STEALTH Kit is a "Grab and Go" box - filled with everything you need to complete your

communications center.



We are proud of the STEALTH Kit as it provides an antenna system that is automatic, easy to install and easy to use. Any location, any radio and any situation - the STEALTH Kit is the perfect choice for a quick and convenient antenna solution. Since 1971, SGC has been designing and manufacturing a wide range of HF SSB communications products. Our goal is to provide reliable equipment, which is competitively priced and which fits the need of the radio user. Please visit our booth in Dayton this year to see

the STEALTH Kit in action and find out

what everyone is talking about.

he STEALTH KI

Kit includes all of the following items:

- SG-237 Smartuner SG-237 Manual
- STEALTH Kit Manual
- 801 (25m) of loop antenna wire
- 30' (9m) of nylon support rope with clip
- 4 antenna mounting clips and ropes
- 2 spare antenna mounting clips
- 12 reusable cable ties.



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